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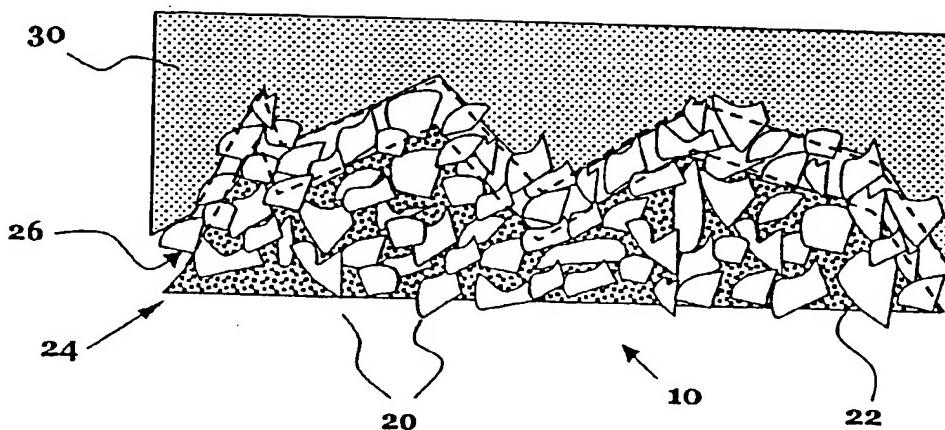
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(54) Titel: COATING METHOD AND COATED ELEMENT

(54) Bezeichnung: BESCHICHTUNGSVERFAHREN UND BESCHICHTETER KÖRPER



(57) Abstract: Disclosed are an element comprising a hard metal substrate (10) and a diamond layer (30), and a method for coating a hard metal substrate (10). Said hard metal substrate is provided with hard material particles (20) and surrounding binding material (22). The hard material particles (20) are surrounded by binding material (22) in a first area (24) comprising intact hard metal. The transition region of the first area (24) encompasses a deep profile having recesses (18) and elevations (16). The diamond layer (30) is braced with the substrate material (10) with the aid of said deep profile, portions of the diamond layer (30) being disposed deeper within the substrate (10) than elevations (16) of the first area (24). Said structure is obtained by means of a pretreatment process in which a hard metal substrate (10) is first subjected to selective etching in order to remove the binding material (22). A porous zone or a second, WC-selective etching step. A cobalt concentration on the surface is finally removed by means of microbeams and the substrate (10) is coated with a diamond layer by means of CVD.

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